

### LABORATORY

OF THE

### INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 224

Tomato Catsup.

### LABORATORY

OF THE

### INLAND REVENUE DEPARTMENT

OTTAWA, CANADA.

### BULLETIN No. 224

### Tomato Catsup.

OTTAWA, May 30, 1911.

Total ..... 75

W. J. GERALD, Esq.

Deputy Minister of Inland Revenue.

Sir, In June and July of last year a collection of Tomato Catsup was made, ten

samples being obtained in each of fifteen inspectoral districts.

The samples in question were all as nined by my assistants and reported to me; but the records were believed to have an destroyed in the fire of 4th January last; which also destroyed the samples themselves.

The recovery of part of the reports on these samples of catsup makes it possible to hand you this fragmentary record; which possesses certain features of interest that may

justify its publication.

In the cases of the following districts, the analytical records are totally lost, viz:-

	amples.
Nova Scotia	10
Prince Edward Island	10
New Brunswick	8
Kingston.	10
London.	1
Manitoba	E
Vancouver.	J
Victoria	10
Total lost	75

The present report, therefore, includes as follows:-

				Samp
District of				
11	St. Hyacinth	e	 	 . 10
**	Montreal		 	 . 10
11	Ottawa		 	 . 10
11	Toronto		 	 . 10
11	Windsor		 	 10
111				
11	Calgary		 	 10

Catsup is rather to be regarded as a condiment, i.e., a seasoning for food than as a food proper; for which reason a consideration of the total nutriment derivable from the article will be out of place. The value of a catsup is to be judged rather by its palatability, its effectiveness as a stimulant to appetite, than by its nutritive

quality.

If however, tomato catsup derive, in any degree, its value from the actual amount of fruit spices and other solid matters used in its production, there is room for astonishment at the great variability in dry solids found in the 75 samples now reported. The total solid matter varies from less than 5 per cent (No. 1349) to above 30 per cent. (Nos. 45089 and 43782) of the weight of the article. The mineral solids (chiefly salt) vary from 0.68 per cent to 3.82 per cent.

Bulletin No. 129 (Dec. 1906) contains a report upon 49 samples of tomato catsup, and in these a variation of from 7.44 p.c. to 29.04 p.c., was noted in total solids; while the mineral matter (ash) varied from 1.60 to .66 per cent. It is worthy of note that the highest ash is not found in those samples which give highest total solid matter.

Under the regulations made in conformity with the Pure Food Law of the United States, catsup is defined as "The clean, sound product, made from the properly prepared pulp of clean, sound, fresh, ripe tomatoes, with spices, and with or without sugar and

vinegar."

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viz:-

This definition is very incomplete, inasmuch as its contains nothing quantitative. It would seem reasonable to insist upon a certain minimum amount of fruit, and perhaps of spices, in catsup. The definition quoted possesses, however, one important and valuable feature, in that it insists upon the pulp being clean and sound, and prepared from clean, sound, fresh and ripe fruit. Many convictions have been obtained against manufacturers whose cutsup has been found mouldy, rotten or swarming with bacteria. (See notices of judgment 156, 388, &c.). But even here there is a difficulty, since an absolutely sterile catsup is practically impossible. It would seem well to fix upon a bacterial limit. beyond which the article would be illegal. Section 3 (e) of our Adulteration Act is quite as precise as the definition above quoted.

All of the 75 samples reported were found to be in good condition, and free from

moulds or decay.

Three (3) samples contained salicylic acid as a preservative; forty-six (46) contained benzoic acid, and six (6) contained sulphurous acid or sulphites. These last were, of

course, artificially coloured.

Coal tar dyes were found in 54 cases. There is no greater objection to harmless colouring matter in catsup than in candy. But a suspicion naturally arises that the colour may be used to conceal inferiority in the article, since it is well known that the use of fresh and ripe tomatoes renders a dye unnecessary; and in fact, some of the most attractively coloured samples herein reported were found to be free from dyes.

The question of fixing a standard for tomato catsup must receive consideration in due course; and a collection to supplement that herein reported, will be made as soon

as work in hand permits.

This report is belated, for reasons already given. The work contained in it belongs to the fiscal year ending March 31, 1911.

I beg to recommend its publication as Bulletin 224.

I have the honour to be, sir,

Your obedient servant.

A. McGILL, Chief Analyst.

### BULLETIN No. 224-TOMATO CATSUP.

-	ppe	No. of Bamp			
	ires.	sulphur-			
	ervati	denzoic Acid.			
BULTS OF ANALYSIS.	E	Saltoylic Acid,			
s or A:	yes.	G raT fac			
RIBELIA	an best.	ate vibioA			
		Total Ash.			
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	Inspector's Report. (Is not an ex- pression of	opinion).			
	Name and Address of Manufacturer or Purnisher as given by the Vendor.				
Cost.		Cents.			
Ö	Quantity.				
	Name and Address of Vendor.				
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## DISTRICT OF QUEBEC-E BELAND, INSPECTOR.

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# DISTRICT OF ST. HYACINTHE-J. C. ROULEAU, INSPECTOR.

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## DISTRICT OF MONTRRAL-J. J. COSTIGAN, INSPECTOR.

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	Nature	Sample.				

DISTRICT OF OTTAWA-J. A. RICKEY-INSPECTOR.

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	Non.	2	8			ż		
	温量	1	None.		P	1	None.	P. P.
P.C.	1.48	1.35	1.13		23 0	18.0	12	1.00
pe pe	3% 64	8 **	3.30		1.84	1.80	8	8.
p.c.	30.15	13.04	39.01		19.78	18-36	18.70	16.70
	Graham's Lily" Brand.	In by T. A. Lydeco, Lat.	Snider's Home 20 04 3 20 1 12 None.	Saider Co., Cincinnati, Ohio, not acti-	Turner" Brand.	Canada Brand	Graham's Lily Brand mfd. by Canada Preser- ving Co., Ham-	Forest City* Brand Hone made Ce. up
	30 Canada Preserving Co., "Graham's Lily" 20-14 2-28 1-48 Pre- None. Pre- None. 43046 Ltd., Hamilton. Brand.	50 H. N. Bate & Sona, Ottawa, Mig. by T. A. 13 64 2 60 1 24	:		30 The Turner Co., Ltd., "Turner" Brand, 19-78 1-84 6-62 Pre-	30 The T. A. Lytle Co., Ltd., "Canada Brand 18:36 1:80	35 H. N. Bate & Sons, Ottawa, "Graham's Lily" 18-70 1-60 1-73 None. Brand mfd. by Canada Preser- ving Co., Ham-	Gorman, Eckert & Co., "Forest f.ity" 16-70 3:26 1:0 Pre- Brand House made Co., up
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## DISTRICT OF TORONTO-H. J. DAGER-INSPECTOR.

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2.30	8	22.5		3	92.0	8	*	1.90 0.88	12	1.1
12.96	18.18	32 33		9 2	9.30	5.84 1.86 2.23	20.91			11-91
"Canada first ".	Burlington"	Heinz Tomato Cateup con-	cial proserva- tive or color- ing.	Benance	Dundd	Nation 1	Canadas Price	Vernon" Brand	'Canada" Brand	fome made
The Aylmer Canning Co., Avlmer, Ont.	Barlington Canning Co.,	.3 45 H. J. Heinz Co., Pitts Heinz Tomako 32 20 2 24 1 79 None 45000 burgh, Pa. Catsup com-tains no artifi-	tive or color- ing.	otto, catala & Ca., Loronto.	30 Ingersoll Canning & Pre-"Dund. 30 5.30 0.76 0.79 None	45 Green & Ca., Toronto.	30 Napanee Canning Co , Ltd., "Canadas Pride" 16 02 1 08 0 68 Pre-	30 The Meaford Canning Co., "Vernon" Braad 6.32	45 The The Co., Ltd., "Canada" Brand 17-40 Toronto.	45 The North Land Mfg. Co., Home - made 16:44 1:44 1:18 Toronto.
8	8	\$					8	8	19	4
s)te	2	:		2	Cano	Bots		=	:	=
June 16 Tometo Catsup. 45037 A. Harris & Uxbridge.	45088 Geo. O. Elder, Mary 3 St. Hamilton.	45089 James Kennedy, 3 Arthur St., To- ronto.	Form Chamber 1	Barrie.	45091 Ward & Co., Ger. 3Cans rard St. E., To	45002 R. J. Povntz, Dun. 3 Bota das St. W., To-	15003 C. H. Crysdale, 3	45005 Thomas Haywood, 3	Thos. Fielding, 3	6007 J. D. Cummings, 3 Bracobridge.
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## DISTRICT OF WINDSOR-JNO. TALBOT, INSPECTOR.

The same of the sa	42322 A. H. Scarff & Co., 3 Bots 35 Wm. Davies & Co., Tor-Davies Tomato 16-34 2-28 1-36 Pre- None. None. None. 42322	Pre- tans
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### BULLETIN No. 224—TOMATO CATSUP.

	No. of Sample					
	Sulphur.					
	Benzoic Acid.					
NALYBIR	Salicylic Acid.					
0 A	Coal Tar Dyes.					
RESULT	Acidity stated as Acid.					
-	Total Ash.					
	Total Solids.					
	Inspector's Report. (Is not an expression of opinion).					
	Name and Address of Manufacturer or Furnisher as given by the Vendor.					
Cost.	Cents.					
ŏ	Quantity.					
	Name and Address of Vendor.					
	No. of Sample.					
	Nature of Sample.					
	Date of Collection.					

# DISTRICT OF WINDSOR-JNO. TALBOT, INSPECTOR-concluded.

	12325	42329	42330	12332	12335	42336	12.32 2.36 0.50 Pre. None 42345	12.28 2.22 0.74 None 42350
	None.			:	2	2	=	:
	Pre-	None.	=	Pre-	. sent.	=	None.	=
	None.	:	:		:		Pre-	None.
-	Pre-	None.	Pre.	Hent.	=	2	=	2
p.c.	1.05	1.95	08.0	69.0	1.43	3.61	02.0	6.24
p.c. p.c. p.c.	3.28	3.74	2.10	2.34	1.98	2.08	2.36	87 61
p.c.	96.91	28.64	12.68	13 90	14.34	14.54	12.32	51 53 53
	Crest' Brand	Heinz Tomato	Champion Tom-	Tillbury Brand	Forest City	made Tomato Catsup. Rex. Brand Tomato Cat- supguaranteed	pure.	
	June 21 Tomato Catsup., 4225 Geo, E. Fox, Lea-3 30 Canada Spice & Grocery Crest Brand., 16:96 3 28 1 05 Pre- None, Pre- None, 4225	4232 Geo. M. Sawyer, 3 45 H. Henz, Leanington Heinz Tomato 28 64 3 74 1 92 None None 42329	42330 Robinson Bros., 3 30 Imperial Spice Co., Ham. Champion Ton. 12.68 2.10 0.80 Pre 42330	30 Tillbury Canning Co., Till 'Tillbury' Brand 13 90 2.34 0.62 ". r. Pre-	42335 Juo. Diprose, Lon. 3 30 Gorman Eckert & Co., Lon. 'Forest City' 14:34 1:98 1:43 don.	:	42345 T. McKay, London 3 30 Imperial Spice Co., Ham-	42250 Wm. Loughrey, 3 ". 39 London Canning Co., London.
	30	45	30	30	8	9	8	96
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	42325 Geo. E. Fox, Lea- 3	42329 Geo. M. Sawyer, 3	42330 Robinson Bros., 3	42332 C. G. Moore, Chat. 3	42335 Jno. Diprose, Lon- 3	42336 J. T. May, London 3 " 40	42345 T. McKay, London 3	42350 Wm. Loughrey, 3
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191	Jun	2	:	=	:	=	:	:

# DISTRICT OF MANITOBA-A. C. LARIVIERE, INSPECTOR.

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None	
Pre-	sent
None.	
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Blackwood Cat-	sup. Sterling Brand
wood Ltd., Winnipeg	. A. Lytie Co., Ltd.,
Black	The 7
45	\$
Lezack, Logan 3 bots.	43501 S. G. Prebble, 3 45 The T. A. Lytle Cc., Ltd., Sterling Brand Sterling Brand Sterling Brand 13501
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33898.J.	43501
Tomato Catsup. 33898 J.	;
July 11 Tomato Catsup. 33898 J.	June 22 " 43501

35898	43501
None.	:
Pre-	sent.
None.	:
None.	
1.48	:
3.36	
98.91	:
Cat-	nd
tts. 45 Blackwood Ltd., Winnipeg Blackwood Cat. 16:86 3:36 1.49 None. None. Sone. 35898	46 The T. A. Lytie Cc., Ltd., Sterling Brand Toronto.
Vinnipeg	6., Ltd.,
Ltd.,	Jythe C
Slack wood	Toronto.
45	4
bots.	=
J. Lezack, Logan 3 bots	nipeg. relble, 3
ezack,	Ve., Win G. P. Kotre I.
33898 J. I	AV No No Av
to Catsup.	;
fuly 11 Tomato C	হা
July 1	June 2

43502	43508	13304	13505	13506	43507	43508	43500	43510
:		:	:	:	Nons.	:	=	
-		:	:	,	Pre-	sent.		
1	:	:	:	:	lone.			
-	:	:	:	:	-èn	went.	one.	ŧ
:	:				0.83	1.54	0.72 N	1.92
:	1	:	:		2.40	3.34	21.5	3 69
:	:	:		:	98.1	5.14	98.6	96.9
Vernon Tomato	Dyson Red Cross.	Sterling Brand				Red Cross Tom. 1	Epicure Brand. 1	54
E33. Collins & Munro, 3 pkgs 45 The Meaford Canning Co., Vernon Tomato	The Dyson Co., Winnipeg.	43504 J. H. McGrath, 3 45 T. A. Lytle, Ltd., Toronto Sterling Brand	565 J. Paterson, Port-13 75 T. A. Snider Preserve Co., age Ave., Win	506; Paseka. Zearoin, 3 45 Blackwood, Led, Winnipeg.	The Tillbury Canning Co.,	5508 A Biggins, Elgin, 3 75 The Dyson Co., Winnipeg. Red Cross Tem. 12.14 3.34 1.24	Delhi Canning Co., Delhi, I	519 W. A. Wales, 3 75 Van Camp Packing Co., 26.00 3 60 1.92 43510 nipeg
4	9	5	55	27	45	12	22	12
s pkgs	hots.	:	:	:	:	=	:	:
Collins & Munro,	S. T. Hoyes, Ehn.	J. H. McGrath,	J. Paterson, Port.	Pasekov & Zearoin, S	Gregory & Co., St.	A. Biggins, Elgin, 3	Ross & Cunning- 3	W A Wales, 3 Nena St., Win- nipeg
4322	43500	4350	43500	4350	43507	43508	43509	43510
	***		;	:	:	:	:	:
:	=		2	2	11	=	:	2
83	77	22	85	8	9	t-	000	=
	=	: 74-	:					-

## DISTRICT OF CALGARY-R. W. FLETCHER-INSPECTOR.

43781	43782	43783	43784	43785	43786	43787	43788	43789	43790
21.66 2.00 0.83 None. None. Pre- None. 43781	:	:	=	:	:	=	:		:
Pre-	went.	Pre-	sent.	5	z	None.	Pre-	Pre-	sent.
None.	:	=	2	2	:	:	ı	None.	=
None.	:	1.55 Pre-	0.87 None.	Pre-	sent.	1.18 None.	=	0.99 Pre. None. Pre. None.	3.10 1.92 None.
9.0	1.86			1.12	1.55		8.	66.0	1.92
3.00	5.60	1.90	3.56	3.00	23	25.28	3.68		3.10
99.12	30.70	15.70	18.26	16.26 3.00 1.12 Pre-	8.18	96.12	90.92	15.22	26.10
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40 Delhi Fruit & Vegetable	43782 Hudon Bay Co., 3 Bots 1 00 — Heinz, Pittsburg. Pa. Lethridge	60 Gorman, Eckert & Co.,	1 00 Curties Bros., Rochester, N.Y.	75 Aylmer Canning Co., Ayl-	" " " " " " " " " " " " " " " " " " "	90 T. A. Snider Co., Cincin-	1 05 Var. Camp Packing Co	45 Gorman, Eckert & Co.,	75 Van Camp Packing Co., Indianapolis. Ind.
9	1 00	39	1 8		2		1 05		
r, 3 Tim	., 3 Bots	50	. e	60	-3 Tins	, 3 Bots	z en	, 3 Bote	=
43781 Craddock & Viner, 3 Tins	Hudson Bay Co	43783 R. Dunn, Medicine 3	43784 The D. Milne Co., 3 Ltd., Medicine	43785 W. H. Hayes, Cal. 3	43786 E. A. Rosser, Cal. 3 Tins	43787 C. E. Compton, 3 Bots Wetaskiwin.	Thibaudeau Trad-3 "ing Co., Wetaski-	43789 Douglas Bros., 3 Bots Ltd., Strathcona.	43790 A. Livingston, 3 Edmonton.
43781	43782	43783	43784	13785	43786	13787	43788 7	<b>43789</b>	43790
tsup.	:	:	:	:	:	:	;	:	:
July 5 Tomato Catsup.	2	z	=	=	:	=	:	:	=
20	10	23	2	83	22		x	5	9
July	=	=	=	=	:	Ang.	=	Ang.	=